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(71)Applicant : **ALCAN INTERNATL LTD**

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(72)Inventor : **FURNEAUX ROBIN  
CHRISTOPHER  
RIGBY WILLIAM ROY**

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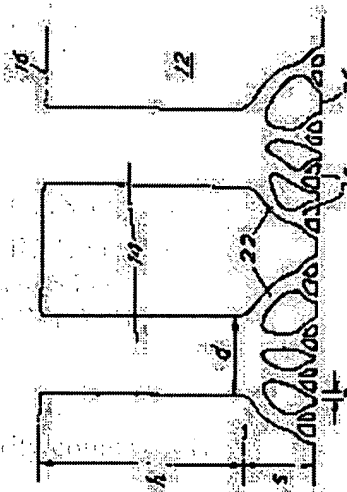
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## (54) POROUS ANODIC ALUMINUM OXIDE MEMBRANE AND ITS PRODUCTION

(57)Abstract:

PURPOSE: To prevent the loss of performance by defects by maintaining the extension distance of a small pore system greater than 1 micron.

CONSTITUTION: The membrane 12 has two major surfaces 16, 26 and the system of larger pores 14 extend into the membrane over the distance  $h$  inwardly from the one surface 16. These larger pores have a diameter  $d$  near their inner ends and the system of the smaller pores 22, 24 extend into the membrane over the distance  $S$  inwardly from the other surface. These smaller pores have the substantially uniform min. diameter  $p$ . At this time,  $d=10$  nm to 2 microns,  $h=0.1$  to 100 microns,  $p=\text{over } 1$  micron up to 5 microns. When the metallic surface of aluminum is anodized by using a certain kind of an electrolyte, the porous anodic aluminum oxide membrane is formed. As a result, the occurrence of the defects is lessened.



## LEGAL STATUS

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